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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,534	12/17/2003	Chan-Bum Park	46015	4425	
1609 75	590 03/16/2006		EXAM	EXAMINER	
-	, ABRAMS, BERDO &	CASTRO, ANGEL A			
1300 19TH ST SUITE 600	REET, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON,, DC 20036			2653		
			DATE MAIL ED: 03/16/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
		10/736,534		PARK ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Angel A. Cas	tro	2653				
Period fo	The MAILING DATE of this communication reply	on appears on the co	ver sheet with the co	orrespondence ac	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F CHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicating to period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no event, ion. period will apply and will ex statute, cause the application	COMMUNICATION however, may a reply be time pire SIX (6) MONTHS from to become ABANDONED	ely filed he mailing date of this c) (35 U.S.C. § 133).				
Status								
1)□	Responsive to communication(s) filed on							
		This action is non-	final.					
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٠,٣	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		o, o	0.0.2.0.				
·		atian						
	Claim(s) 1-12 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· <u> </u>	Claim(s) is/are allowed.							
	Claim(s) <u>1-12</u> is/are rejected. Claim(s) is/are objected to.							
	Claim(s) are subject to restriction a	and/or election requ	urement					
		and/or election requ	mement.					
Applicati	on Papers							
9)[The specification is objected to by the Exa	aminer.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by t	he Examiner. Note	the attached Office	Action or form P7	ΓΟ-152.			
Priority u	nder 35 U.S.C. § 119							
_	Acknowledgment is made of a claim for fo ☑ All b) ☐ Some * c) ☐ None of:			(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the International B	•	· • • • • • • • • • • • • • • • • • • •	1				
3	ee the attached detailed Office action for	a list of the certified	copies not received	1.				
• • •								
Attachment ≄\ ⊠ Notice	` '	1	□ 1					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	4) 8)	Interview Summary (I Paper No(s)/Mail Dat					
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	(B/08) 5)	Notice of Informal Pa Other:		D-152)			

Application/Control Number: 10/736,534

Art Unit: 2653

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

2. Claim 7 is objected to because of the following informalities: In line 7, "on" should be changed to --out--. Correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Kabasawa et al (U.S. Pat. 5,889,638).

Regarding claims 1 and 7, Kabasawa et al discloses an apparatus (figures 13-16) for converting a rotational movement to a linear movement, comprising:

a lead screw 11, and

a slider having a first protrusion 36 and a second protrusion 39d, which are inserted into the groove of the lead screw,

wherein the first protrusion 36 is adapted to substantially tightly fit into the groove of the lead screw whereby the rotational movement of the lead screw is converted into the linear movement of the slider; and

wherein the second protrusion 39d is adapted to remain in the groove of the lead screw even if the first protrusion is moved out of the thread of the lead screw.

Regarding claims 2 and 8, Kabasawa et al discloses that the second protrusion is adapted not to contact the lead screw when the first protrusion is in a normal position (see figure 15).

Regarding claims 3 and 9, Kabasawa et al discloses that the first protrusion and the second protrusion are formed separately such that movement of the first protrusion along the radial direction of the lead screw does not cause the second protrusion to become separated from the screw groove of the lead screw (see figure 13).

Regarding claims 4 and 10, Kabasawa et al discloses that the slider further comprises a first extension portion 9b on which the first protrusion 36 is formed, and a second extension portion 39c on which the second protrusion 39d is formed (see figures 12-13).

Regarding claims 5 and 11, Kabasawa et al discloses that the second extension portion extends in a different direction from the first extension portion (see figures 12-13).

Regarding claims 6 and 12, Kabasawa et al discloses that a support portion adapted to support the second extension portion such that a designated minimum force is required to separate the second protrusion from the groove of the lead screw (see figure 12).

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The

examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANGEL CASTRO

Angel Castro, Ph.D.

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